

Application No. 10/814,982

Atty. Docket No. 043395-0377973

Amendment dated December 2, 2010

Reply to Final Office Action dated September 24, 2010

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings of claims in the Application.

1.-7. (Cancelled).

8. (Currently amended) The apparatus of claim [[1]] 60, wherein each of the plurality of addressable cells includes an individually addressable cell.

9. (Original) The apparatus of claim 8, wherein the individual addressable cell includes a first individually addressable electrode and a second individually addressable electrode.

10. (Currently amended) The apparatus of claim [[1]] 60, wherein each of the plurality of addressable cells includes a pair of electrodes that are less than approximately 200 microns in size and the spacing of the electrodes is less than approximately 200 microns.

11. (Original) The apparatus of claim 10 wherein each of the pair of electrodes are less than approximately 100 nm in size.

12. (Original): The apparatus of claim 10, wherein the spacing of the pair of electrodes is less than approximately 100 nm.

13. (Original): The apparatus of claim 10, wherein each of the pair of electrodes includes at least one member selected from the group consisting of single-walled carbon nanotubes and silicon nano-wires.

14. (Currently Amended): An apparatus, comprising:  
a microfluidic trench to contain one or more target molecules, an array addressed device including a plurality of addressable cells, each of the plurality of addressable cells including a